```
atatgtatta tatataatac atatatgtat aatatatgtg tttcatatgt atgtatttgt 5160
ttaattttgt atacagatta ggagaagcag ttttttgtttt gttttttcctt taggaaatca 5220
tattccctaa ttggaatggg aaagaggaaa gaaccataag ctggagctta cttccttttc 5280
taccgacaag gaacccaaac ttcaaaactt atttgtcaac ataaaaaaga caataataaa 5340
aacaacaact ttagaacgtt caggacaaag ccttcaaagc cttcaatgcc ctgaagcagg 5400
ttttagaatg gctgtcctct caaattgctt tttcaagtgt actgacccgc actttgtctt 5460
cagtcacacc taagtttcg gcaagttccc ttctgtggag agaagatcac acatggttag 5520
tattcaaagt tgtggatgaa atgaaatata tagtatgtac tatttacttc atgcttgttt 5580
tacaatttat aatctcccct cacacctccc ccaagtatat acttttctct aattcccagc 5640
tccatggttg ctttagaaat ggtttaccct catcacgaaa tttaaggtga cgttaacaac 5700
tcagtaatca agagaaatac cttttttttt ttaaattgag acaaggtctc actctgtctc 5760
ctaggctgga gtgcagtggt gtgatttcag ctcactgcaa cctccgcctc cggggttcag 5820
acgattctcg tgcctcagcc tcccgagtag ctgcgattac aggcacatac caccatgccc 5880
agttgatttt tgtattttta gtagagatgg ggtttttgcca tgttggccag gctggtctcg 5940
aactcctgcc cgtctcagcc tcccaaagtg ctgggatttg gggcatgaac caccgcaccc 6000
ggccaagatg aataatttaa tgcattatta ttatttttat tattattatt tgagacaggg 6060
tctcactgtc gtctatgttg gagtgcagtg gcaggatcac tgctcactgc agcctgcatg 6120
tcctgggctc gaacgatcct cctgcctcag ccttccaagt ggctgggagt acaggcacac 6180
accaccacac ccacatggct aatttttttaa gttttattta gagacggggt tttgccatgt 6240
tgcccaggct gttcttgaac tcctggactc aagcaacctt cccaccttgg cctcccaaaa 6300
gcgctggaat tacaggcctg agccaccgtg cctggcccta atgcactatt ttaataaata 6360
acaattaatg caaaaatctg tgatgaggac caggcactgt ggctcaggcc tgtaatccca 6420
gcagtttggg aggccgaggc aggcaaattg cttgagccca ggagtttgag actagcctgg 6480
gcaacacggc gaaaccttat ctctacacac aaaaaaaata caaaaattag ccaggtgtgg 6540
tggcctgtgc ctgcagtccc agctactcag ggggctgaca cgggaggatg gcttgaaccc 6600
aggaagcaaa tgttgcagag agctgaaatc gcactgctgc actccaacct gggccacaga 6660
gagagactct gtctcaagac aaaacaaaaa aaccagaaaa acaaaaaacc aaccaaacaa 6720
acaaaaaaaa actatgatga acaaattatc aaaatttttaa ataaaggaag gatctagcac 6780
tgtagttgca tgacagtacc tcattctcct taccccaatt tcaataaaat tttatttata 6840
aaaacagacc acagctgggt gtggtggctc actcctataa tcccagcaac tcaggaggct 6900
gagatgggag gattgcttgg gtgacagatc ccccactcaa caaaaacaac aacaacaaca 6960
aaaacaggcc atcatcacag gtaataaaag aaaaaataca taacttggac tatatcaaaa 7020
tttaaaactt ctgtatatca aaagatgcaa tgaacagagt aaaaagacaa ctcatagaat 7080
ggaaggaaat atttgcaaat cacatctgat aaggggttaa tatccagagt gtataaagaa 7140
ctcctacaac ccaataacca aaaaaaaaga aagaagaaa gaaaagcca ctcagatttt 7200
aaaatgggta aaggacttaa agagatattt ctccaaagaa gatatacaag tggccactaa 7260
gcacatgaaa ggatgcacaa catcactaat cattagggaa aagcaaatcg aaactacaat 7320
gaagtatcac ctcacaccca ttaggatggc tatgtaaaaa accccagaaa ataacaagtg 7380
ttggtgagga tgtggagaaa ctggaacccc catgtactgt tggtgtgcac ctgtatctat 7440
aaaatggaat attatttagc cttaaaaagg aaggaaattc taatatatgc tgcgatatgg 7500
atgaaccttg aagaccttat gctaagtgaa ataagtcagt gacaaaaatg caaatactgt 7560
atgattctac ttacatgaga tacctagagt agtcaaaatc atagagacat aaaatagtag 7620
aatggtggtt gccaagggct ggggaaaggg ggaaaagggg agttgcttaa ctggtataga 7680
gacttagctt ggcaagatga gaagaattct agagatctat tgcacaacaa tgtgaacata 7740
cttaacacaa ctgaactcta tacttaaaaa gtggtttgga cggtaaattt catatttccg 7800
tgtattttac cacatctttaa taaaagggag gcacggacta gtttccaggt ttcattcaca 7860
taaacattgc aataaaacat ttaccttgat gcccaggagg taaatatccc cctccacacc 7920
agcacaaagg caggcaagga cccccagtgg cttttttcctc atgattgggt ggggcaaggg 7980
agagaaaaag atgcctcgaa acgaacttgg agatctcgtg gctcctggag caggccactt 8040
accttgtggg cacatcaggg tattgagtgt gtcggaaaac actttccagc tcctccacct 8100
gcaacagcgt gaacttcgtg cgccgagttc gtggctgcat gttctcgggc tgcggaccct 8160
ccatggccgc ctgggccggc tcctccggcg ggggctgcgg ctgctgccga ggctcctggt 8220
ttccaccgcc gccctcgggg atcatgccgc catcgcggtt catgccgttc tcgtggttca 8280
caccgccctc agggttcata ttacccatga ggcctggagc tccttggcca acatggcctt 8340
ctgcgcttga tgctgccccc agctgaggtg tggggcttat ttttacctgg tatacactca 8400
ggcagtagaa cacggtgtcg tggacgagcg aacgcgccat ggctggagcg ctgcgcccct 8460
gcacaaactc cgtggcgtct gcagctggag tggggggttag agggtggagc tagttcctgt 8520
tctcatgctt ggtattggtt acagttgcaa tgagtgggac ttgcttatgc gcacaagcaa 8580
```

```
gagagggaat ggagaggagt ggggggatgg gaagttgggg ggtgcgggtg gggagtgggg 8640
gtgttgcagg tgggagtggg gggttgtgag tgtggggtgg ggtgcaggtg gggatggggg 8700
tgtgggtgga gggtgggggg tgcacagtga gggtgggggt tgcgggtgag ggtaggggtt 8760
gtgggttggg gtgggggttg ccggtggggg tacatggtgg gggtgggggt agcgggtgga 8820
gatgggaggt gtgggtggag ggtgcgtggt gggggtaggg gttgtgggtg ggggtgaggg 8880
gtgtggtatg ggtcgtgggt gggggtggca gttgagggtg gagtggggtg gccaaaacac 8940
aggggcagtg tggagaagaa aagggccaat aggaggcata tatgtatgca acatggggcc 9000
ccagcttgca gctttgctga ctacaccta ctcgggccta gttattaccc tgaggaaagc 9060
tgatttgggg gctcagaggg gaggtgagat ctcacggtga ccataggacg ccttgagtaa 9120
aagtttggag aatatctcat ggcctgaccc tccatatttg gcagcatgca cagggcgcgg 9180
gctattaatt aagcagaaat gattgactgg gggctgcttg ttcagagttc cagcaaaggc 9240
actgaaagca gagctgccat gctctcttca gtgctgggat cgggatcttg gagatgggca 9300
tgcagagcat tctgggtggt aagatgtgct ctgcaagaaa tctaacgcac cctttgagaa 9360
agtcaacaca gaataaacac gaggctgaat ctgttagcct gagactgaat atctttggct 9420
atgcaagaga aacctgtact catggcaaaa tggagtgcta taaggacaag caaaaaataa 9480
ataaataaat aaaatcgggg atggtatagg aagagcacca gtaagggcat acctgccaaa 9540
aatctccaat cttgggatgg agatttggga tttatggata tgcagcttac tggatgtggg 9600
gccacttctg ctccacagag ccttgtaact acacagcctt cctaccactg accccaataa 9660
gcccaattac gaagaaaaac cctgaagagc ctggtgcagt ggctcctgca ctagtcccag 9720
ctactcagga ggctgagatg ggaggatcac ttgaacccag gagtttgagg ctgtggtgag 9780
ctagaatcac atggcagcac tccagcctgg gcaacagaca gaggcccctt ttctttaaaa 9840
taaataataa aataagaaat aaaatgaaaa tgaaagaaag gaaagcgcta agagagtctg 9900
tcatgaggaa gggcatggag atgtcttttg agggtggaca actcatgaat ccttaatttt 9960
tctagagatt gtgtgtgtgc tcttaagtga tgttatatac tttatttgt tttttaaaaa 10020
tatttttaaa aattttattt ttaaatgttc ttttaaaaac tttctgtatc tatttatatc 10080
tattggttat ttgaggattt tttggcagca tatataaata tgcagaccct ttgagtctgt 10140
agcctaccaa gagagatagc tctcgtcttc atggtgattc tgagcatgga aaggcccttg 10200
cacttggcag catgacaagg actaagccac tcgctccatt aattgactgc catccactgg 10260
gctaagtgag atccttgcgt tctatcccta gtgagagaag agagaggaag aagaagaaaa 10320
atagaaagat aataagaaaa tagaaaaga aatgaataaa tgtacattgt ggggagcagg 10380
aaaggactac cagtaatggg aggcatcagc taggagcaca gatccgaagc atgactcact 10440
gtgtgtccta ggacactgga tgaatctatc tggttctcag cttcctcacc tataaaatgg 10500
agataacaac agtgtctcga tcatagggtt ttcatgagag ttcaatgagg caaggcatac 10560
atgtaactga acacagctcc gactgctcac cagttgcaaa gtccagtgaa caagaacgac 10620
gtctggtaga aagaaagtgg ctttattcca gagctagttt aggggaagta gtacaggctg 10680
ccttgaggaa gccactaaag cctttggggc agaaggcagg agctttgaaa gtggggcttg 10740
gcgtgaatgg catgcagggg agagggcgat gaagtgcaga gtctatgtga cttgcttcgg 10800
atgtcttatc tatcaggtgg tctggctggc accgtcacgg gcagagctag gttgtaagtt 10860
gaggcaatct caatttgcct cctggtagga gagagttctg gaggttcctg gtttgcttta 10920
aggttcggtc tctgtaactt ctaagtaaac atgtagttag ataagctt             10968
```

<210> 4
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 4
atggcgcgtt cgctcgtcca cgac   24

<210> 5
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 5
tagtccacga cgatgtagac acag   24

<210> 6
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 6
ctagaagcat ttgcggtgga cgatggaggg   30